Operating Instructions

APP-300C
Variable DC Power Supply

> Provides Variable DC power 12V ~ 15Volts 350W max power output.
> Optimized radio frequency filtering for radio communications equipment.
> Advanced 3-stage output for battery charging.
> Battery charger current selector switch 0 ~ 10 / 0 ~ 25Amp.
> Display Volts or Amps usage.

APP-300C
Variable Power Supply

Overview

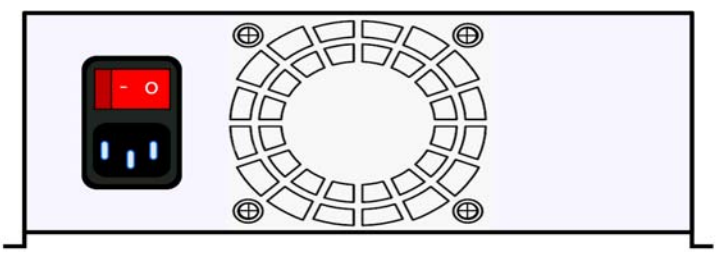
The APP-300C is an advanced variable DC power supply with an output voltage range of 12v -15Volts DC with the added feature of being an intelligent 3-stage battery charger.

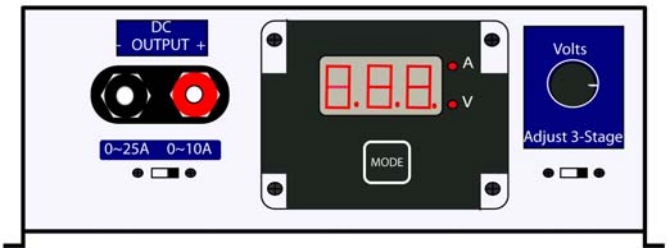
Power Supply Features.

- The output voltage of the APP-300C is regulated in 1% range of the selected level.
- The design incorporates extensive filters to minimize the radio frequency interference (RFI) and is suitable to be used with radio communication equipment.
- The built-in protection includes over-voltage, over-current, high temperature, reversed polarity and short circuit protection.
- 3-stage battery charger function

Controls

The mains power switch is located on the rear panel above the AC power inlet socket, Cooling is provided by the integrated fan on the rear panel.





- DC power output terminals are located on the front panel the RED terminal is the + (positive) the BLACK terminal – (Ground)
- Adjust or 3-stage switch is located below the output variable adjustment control this is used to select adjustable power supply or 3-stage battery charger.
- Output variable output adjustment control is only used while in the variable power supply function allows the voltage level to be adjusted
- 0~25A and 0~10A switch located below the DC output terminals select the ampere's range of the battery charger.
- Mode switch below the digital readout screen selects either the voltage or ampere's reading supplied from the power supply.
- The two LED's next to the letter A and V on the readout panel indicate which readout is being displaying Amps or Volts

Operation

Variable power supply

Before turning on the AC power connect the equipment you wish to power, to the output terminal's on the front of the unit check the polarity of the cables, select the adjust position on the selector switch, please make sure the volts range is turned fully anti clock wise before turning the AC mains power switch on. The range starts from 12V and can be adjusted to the desired output voltage by rotating the adjustment control clockwise, turn it anti clock wise to decrees the voltage level.

To check the Amps press the mode button below the digital screen this toggle between the voltage and Amps reading.

Battery Charging.

Connect the battery to be charged to the output terminal on the front of the APP-300C.

Ensure the battery is connected with the RED terminal connected to the battery + terminal on the and the Black terminal ground connected to the battery − terminal.

Change the selector switch on the front panel to 3-stage this will activate the charger function, use the selector switch to select the appropriate charging level for the battery your are charging 0~10A for battery with an ampere hour of 60Ah ~100Ah and 0~25A for battery over 100Ah.

Further information

When a battery is connected to the APP-300C the display will illuminate and will remain on until the battery is disconnected, this feature allows the constant monitoring of the battery charge level when the AC power is off or on indicating when the battery requires re-charging.

The 0 ~ 10Amp is designed to charge battery's of 60Ah and above.
The 0 ~ 25Amp is designed to charge battery's of 100Ah and above.

Battery charging connections should be made from 4.0mm² cables.

The recommended minimum battery capacity is 60Ah failure to follow this recommendation may lead to permanent damage to your battery

Do not use this unit to charge non-rechargeable batteries.

Batteries should only be charged in well ventilated areas.

Please ensure that the power supply has adequate space and ventilation.

Mounting side rails can be removed and the screw refitted into the case if you wish to have it free standing or the APP-300C can be mounted using the rails.

APP-300C

Input Voltage	90 – 264V AC
Input Frequency	50 - 60Hz
Output Voltages (adjust):	12 ~15VDC ±1 %
Load Range	0- 10A and 0 – 25A, Selectable Range
Output Power	375W
Standby Current	2.5mA
Protection	
	Current limit @ 25A ± 1A
	Short circuit protection
	Overvoltage protection @ 17V ± 1.0V
	Thermal protection @ 95^{o}C ±5^{o}C
Output Voltages(3-stage):	
	13.8VDC ±1% (BELOW 2A)
	14.5VDC ±1% (ABOVE 3A)
Cooling fan operational	Above 6±1A load
Operating Temperature	-25^{o}C to 50^{o}C
Storage Temperature	-40^{o}C to 85^{o}C
Dimensions	
Length:	146mm
Width:	181mm
Height:	66mm
Weight:	2.1 Kg
Approvals Safety:	EN60335-2-29, UL60950-1: 2005, 2nd Edition
Emissions:	EN55014, EN55022 Class B; FCC PART 15 B
Harmonic:	EN61000-3-2 Class D

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